

WHAT IS CLAIMED IS:

1. A portable device comprising:

a memory configured to store digital data;

5 a first output unit configured to provide an  
output in accordance with a reproduction signal  
obtained by subjecting the digital data to reproduction  
processing;

a second output unit configured to provide  
an output in accordance with incidental data obtained  
10 by subjecting the digital data to the reproduction  
processing;

a central control unit configured to execute  
control operations other than the reproduction  
processing; and

15 a dedicated unit configured to generate the  
reproduction signal and the incidental data by  
receiving the digital data from the memory and  
executing the reproduction processing with respect to  
the digital data, the dedicated unit supplying the  
20 reproduction signal and the incidental data to the  
first and second output units, respectively.

2. The portable device according to claim 1,  
wherein:

said digital data is music data;

25 said first output unit receives an acoustic signal  
as said reproduction signal and performs audio output  
in accordance with the acoustic signal; and

said dedicated unit generates the acoustic signal from the music data acquired from the memory, and supplies the generated acoustic signal to the first output unit.

5           3. The portable device according to claim 1, wherein:

          said digital data is music data;

          said second output unit receives vibration intensity data as the incidental data and provides vibration in accordance with the vibration intensity data; and

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          said dedicated unit measures a volume level of the music data acquired from the memory, generates vibration intensity data corresponding to the volume level, and supplies generated vibration intensity data to the second output unit.

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          4. The portable device according to claim 1, wherein:

          said digital data is music data;

          said second output unit receives display data as said incidental data and performs display output in accordance with the display data; and

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          said dedicated unit measures a volume level of the music data acquired from the memory, generates display data used for displaying the volume level, and supplies generated display data to the second output unit.

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          5. The portable device according to claim 1,

wherein:

said digital data is music data;

said second output unit receives display data as  
said incidental data and performs display output in  
5 accordance with the display data; and

said dedicated unit measures a frequency component  
of the music data acquired from the memory, generates  
display data used for displaying the frequency  
component, and supplies generated display data to the  
10 second output unit.

6. The portable device according to claim 1,  
wherein:

said dedicated unit includes table information  
which associates the incidental information with  
15 characteristic data indicating characteristics of the  
reproduction signal; and

said dedicated unit acquires characteristic data  
by measuring the characteristics of the reproduction  
signal, acquires incidental data corresponding to  
20 the characteristic data by referring to the table  
information, and supplies acquired incidental data to  
the second output unit.

7. The portable device according to claim 1,  
wherein said central control unit reads the digital  
25 data from the memory and sends the digital data to the  
dedicated unit.

8. The portable device according to claim 1,

wherein said dedicated unit reads and receives the digital data from the memory in accordance with an instruction supplied from the central control unit.

9. A portable device comprising:

5           a memory configured to store digital data;  
          a first output unit configured to provide an output in accordance with a reproduction signal obtained by subjecting the digital data to reproduction processing;

10           a central control unit configured to execute control operations other than the reproduction processing;

          a second output unit configured to provide an output in accordance with an incidental data signal  
15           obtained by subjecting the digital data to the reproduction processing or a control signal output from the central control unit;

          a dedicated unit configured to generate the reproduction signal and the incidental data signal  
20           by receiving the digital data from the memory and executing the reproduction processing with respect to the digital data, the dedicated unit supplying the reproduction signal to the first output unit; and

          a selector which selects one of the incidental  
25           data signal output from the dedicated unit and the control signal supplied from the central control unit, and supplies a selected signal to the second output

unit.

10. The portable device according to claim 9,  
wherein said selector selects the incidental data  
signal from the dedicated unit in accordance with a  
5 selection signal which the central control unit outputs  
when the reproduction processing is being executed with  
respect to the digital data, and supplies the selected  
signal to the second output unit.

11. The portable device according to claim 9,  
10 wherein:

said digital data is music data;

said first output unit receives an acoustic signal  
as said reproduction signal and performs audio output  
in accordance with the acoustic signal;

15 said second output unit provides a vibration  
output in accordance with one of the incidental data  
signal and the control signal;

said dedicated unit performs a music reproduction  
operation by generating the acoustic signal from the  
20 music data acquired from the memory and by supplying  
the generated acoustic signal to the first output  
unit, measures a volume level of the music data, and  
generates a vibration intensity signal corresponding to  
the volume level as said incidental data signal; and

25 said selector selects the incidental data signal  
from the dedicated unit in accordance with a selection  
signal which the central control unit outputs when the

music reproduction operation is being executed, and supplies the selected signal to the second output unit.

12. The portable device according to claim 11, further comprising a radio communication unit  
5 configured to perform radio communications under control by the central control unit,

wherein the central control unit outputs the control signal for controlling an output operation when the radio communication unit performs radio communica-  
10 tions, and the selection signal for controlling the selector, and

the selector selects the control signal in accordance with the selection signal output from the central control unit, and supplies the selected control  
15 signal to the second output unit.

13. The portable device according to claim 9, wherein:

said dedicated unit includes table information which associates the incidental data with character-  
20 istic data indicating characteristics of the reproduction signal; and

said dedicated unit acquires characteristic data by measuring the characteristics of the reproduction signal, acquires incidental data corresponding to  
25 the characteristic data by referring to the table information, converts the incidental data to the incidental data signal, and supplies the incidental

data signal to the selector.

14. The portable device according to claim 9,  
wherein:

5       said central control unit reads the digital data  
out of the memory when the digital data is subjected to  
reproduction processing, and supplies readout digital  
data to the dedicated unit; and

10       the selection signal used for selecting the  
incidental data signal output from the dedicated unit  
is supplied to the selector.

15. The portable device according to claim 9,  
wherein:

15       the central control unit activates the dedicated  
unit when the digital data is subjected to the  
reproduction processing, selects the selection signal  
used for selecting the incidental data signal output  
from the dedicated unit, and supplies the selected  
selection signal to the selector; and

20       the dedicated unit reads the digital data out of  
the memory and executes reproduction processing with  
respect to the readout digital data.

25       16. The portable device according to claim 9,  
further comprising a radio communication unit that  
serves as a portable telephone function operating under  
control by the central control unit,

      wherein said second output unit provides  
a vibration output in accordance with one of the

incidental data signal and the control signal,

said central control unit outputs the control signal used for controlling a notification operation performed when an incoming signal is received;

5           said dedicated unit performs a music reproduction operation based on the digital data acquired from the memory, and generates the incidental data signal corresponding to the volume level in synchronism with the music reproduction; and

10           said selector operates in response to the selection signal output from the central control unit, selects one of the incidental data signal and the control signal, and supplies a selected signal to the second output unit, the incidental data signal being  
15           output from the dedicated unit when the music reproduction is being performed, the control signal being output from the dedicated unit when the notification operation is being performed in response to the incoming call.

20           17. A digital data reproducing method for use in a portable device including a memory for storing the digital data and a dedicated unit for reproducing the digital data, the method comprising:

          receiving the digital data corresponding to music  
25           data from the memory in a music reproduction mode;

          causing the dedicated unit to perform music reproduction processing for generating an acoustic



signal from the music data; and

measuring a volume level of the music data and  
generating incidental data which indicates the volume  
level.

5           18. A method according to claim 17, wherein:

the portable device includes an output unit for  
providing vibration in accordance with the incidental  
data; and

10           the method further comprises outputting the  
incidental data to the output unit and providing  
vibration in synchronism with the music reproduction  
processing.

19. A method according to claim 17, wherein:

15           the portable device includes an output unit which  
provides a display output in accordance with the  
incidental data; and

20           the method further comprises outputting the  
incidental data to the output unit and providing  
the display output in synchronism with the music  
reproduction processing.

20. A method according to claim 17, wherein:

25           the portable device includes a central control  
unit, and an output unit which provides a vibration  
output in accordance with one of the incidental data  
and the control signal output from the central control  
unit, and

selecting one of the incidental data and the

control data in accordance with an instruction from the  
central control unit and supplying selected data to the  
output unit, the incidental data being selected in the  
music reproduction mode and the control signal being  
5 selected in modes other than the music reproduction  
mode.